

The Tech

VOL. XXIV. No. 35.

BOSTON, MASS., FRIDAY, DECEMBER 16, 1904.

PRICE FIVE CENTS.

POLICE TRIAL.

Cases of All the Officers to be Tried as One.

The first session of the trial of the officers against whom charges have been preferred for the part they took in the Tech riot, was held on Wednesday, December 14. Nearly all of the eleven accused officers were represented by their own individual counsel, and Mr. Edward B. Adams acted as counsel for the Police Board.

Chairman Emmons said that it had been decided that all of the cases should be tried together. Mr. Adams in speaking generally of the charges, stated that the officers were accused of failing to meet the requirements imposed upon them in handling their men, and that they failed to stop their men from using unnecessary force in dealing with the crowd.

President Pritchett was the first witness called. He told of hearing, for the first time in his life, the sound of policeman's clubs, striking on people's heads.

The Tech students who testified Wednesday were A. L. Burwell, '07, P. C. Hooker, '08, S. S. Thatcher, '07, and Joseph Daniels, '05.

Daniels said that he identified Sergeant Fitzgerald as one of the clubbers on the steps. The greater part of the evidence submitted at this trial is a repetition of that given at the investigation just closed.

At Thursday's session of the trial the cross-examination of Joseph Daniels, '05, was resumed. He was followed by W. F. Dolke, '08, who also identified Sergeant Fitzgerald as the officer whom he saw striking a man across the shoulders.

W. F. Turnbull, '06, repeated the story which he told at the earlier hearing. Edward E. Rowe, '06, testified to having helped two other students to seize a policeman and to pull him off the steps. J. S. McGregor, '06, C. H. Cinedella, '07, and a few others, also gave some testimony, and were cross-examined.

The hearing from present indications, will last a week at least. The number of witnesses to be called is very large, one sergeant having summoned as many as fifteen.

MINSTREL SHOW.

Junior Night at The Kommers.

The Juniors have arranged to give an impromptu Minstrel Show as their stunt at the Technology Kommers next Saturday night, December 17. Cracks at prominent people will abound, and good fun will play a prominent part.

Tickets must be secured in order to obtain admittance. Get tickets of Mr. Powers. 25 cents. Members of all Classes are welcome.

Mining Engineering Society.

A meeting of the Mining Engineering Society will be held at Tech Union, Monday, December 19, at 7.45 P.M. Dr. Edward Dyer Peters will address the Society on "Commercial Reactions in the Blast Furnace." Dr. Peters is one of the leading metallurgists in the country and is an authority on the smelting of copper. This meeting will be perhaps the most interesting of the year and all members are urged to be present. All Course III. men and others interested are cordially invited.

(Signed) ROY H. ALLEN,
President.

C. E. Society.

About a hundred men enjoyed the illustrated lecture of Mr. F. E. Matthes before the Civil Engineering Society at the Tech Union, Wednesday evening. Mr. Matthes in a very entertaining way told of his experiences in the Government Geological Survey Service.

The Phillips Exeter Club will hold a dinner at 6.30 P.M. at the Union, on Tuesday evening, December 20. All Exeter men are urged to be present.

LOUIS E. ROBBE,
President.

Course II Basket Ball.

The Non-Professional All Star Course II Senior Basket Ball Team has elected C. H. Graessar Captain. The opinion is cherished that this team can beat any other Senior Course Team. Any Course ambitious to change this opinion, will be given a chance.

L. T. BUSHNELL, Manager.

MECH. ENG. SOCIETY.

Meeting at the Union To-night.

Mr. Chas. H. Bigelow, of the Boston Elevated Railway Company Motive and Machinery Department, will give the Mechanical Engineering Society an illustrated lecture to-night, December 16, on the Lincoln Wharf Station. This is the station that the Society visited recently, and Mr. Bigelow will show slides taken during the erection.

The meeting is at the Tech Union at 8 o'clock.

Basket Ball.

Technology was defeated by Holy Cross on Wednesday night by a score of 36 to 11. Technology started well and at the end of the first half the score was 14 to 6 in favor of Holy Cross. In the second half, however the Worcester boys ran up the score very rapidly.

M. I. T.	Holy Cross.
Blake, l.f.	l.f., G. Connors
Matheson, r.f.	r.f., Stevenson
Burleigh (Moffatt, McGregor) c.c.	Spring
Wiggins (Kennedy), l.b.	l.b., J. Connors
Coey, r.b.	r.b., Reid

Score, Holy Cross, 36, M. I. T., 11, Baskets from floor, Stevenson 5, G. Connors, 4, Spring 4, J. Connors, 3, Reid, Matheson, 2, Blake. Baskets on free tries, Blake 5, Spring 2, Fouls called. On Holy Cross 9, on M. I. T. 8. Referees, P. W. Hehir and Mr. Briggs. Timers, O'Brien, Holy Cross; Mahan, M. I. T. Time 20-minute halves.

M. I. T. A. A.

There will be a meeting to-day of all students interested in athletics, at the Institute, at 1 P.M., in 22 Rogers. The purpose of the meeting is to discuss and vote on the new Constitution. It is important that all athletic organizations should be represented.

Novice Tournament.

On Saturday evening the Fencing Club will hold a novice tournament, at 8 o'clock, in the Gymnasium. It is expected that much new and promising material for the regular team will be brought out. Cups will be awarded for first, second and third places in the tournament.

GENERAL CONVOCATION.

Dr. Booker Washington Addresses Audience in Huntington Hall.

The audience which gathered to hear Booker T. Washington's address at the convocation Wednesday, taxed the capacity of Huntington Hall to the utmost, the attendance being the greatest of any this year. Before introducing the speaker Dr. Pritchett extended to all a cordial invitation to the reception to be given by himself and Mrs. Pritchett at the Tech Union on the evening of December 24.

Mr. Washington delivered one of his characteristic addresses, humorous at times but eloquent in his able championship of the cause of the unfortunate negro. He brought out the fact that often the negroes were judged from the worst and not the best of their race, which fact has given rise to many erroneous ideas with regard to their education and advancement. The percentage of illiteracy among the negroes in the United States is only 54 per cent. while in Spain and Italy it is higher in spite of their centuries of civilization, a very good showing of progress which the negro has made during the forty years that he has had his liberty.

The problem of what to do with the negro, Mr. Washington asserted is one of the serious questions which confronts the American people to-day. Its satisfactory solution, he thought, was in education of the negro as a tradesman, so that his presence in a community will be beneficial. Much is being done by the manual training schools at Atlanta, Tuskegee and other places in the South. The decrease, recently, in the number of lynchings is largely due to the moral enlightenment which comes with the education given by such institutions.

Mr. Washington closed with an appeal to his hearers to give the negro a chance to show that he, as well as the white man, could be an industrious worthy, American citizen.

At the close of the address, the President, on behalf of the Institute, thanked Mr. Washington and brought the convocation to a close.

The Tech

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 Single Copies 3 Cents.

In charge of this issue: W. H. TRASK, 1906.

Friday, December 16, 1904.

WILLIAM A. NICHOLS, PRINTER, 208 SUMMER ST., REAR

It has been suggested that the Management of the Hockey Team open the rink on certain afternoons and evenings of the week to Technology students and their friends. The small amount which could be charged as an admission fee would increase the income of the Hockey Team and would enable them to better meet their expenses.

Owing to snow, there are very few good skating places in Boston and none of them are used distinctively by Technology men. If the hockey rink were opened to them the work of the Hockey Team would not be interfered with, as the rink could be closed while the Team is practicing.

Basket Ball.

The Basket Ball game for Saturday will be with Dartmouth, at Hanover, N. H. Despite the fact that Tech was defeated at Worcester, Wednesday evening, the team expects to make a good showing in this game, and by some of its old-time snap and spirit to bring the team up to the standard.

Winter Concert.

The Annual Winter Concert and Dance, given by the Glee, Banjo, and Mandolin Clubs, will be held in the New Century Building, 177 Huntington Avenue, Wednesday evening, December 21, 1904. Tickets may be obtained from any member of

the clubs. These tickets will be exchanged in Rogers Corridor, on and after Monday, December 19, for the regular reserved seat tickets. Preference will be given to those holding the exchange tickets. Concert and dance, \$1.00; concert, 50 cts.

Fencing Team.

Mr. E. F. Bender, '06, has been appointed assistant manager of the Fencing Team. A date is pending with Cornell University for a meet with their team at Ithaca. Major Briggs has promised the team \$50 to pay expenses, if the student body will raise \$50. There is apparently no reason why this amount and much more can not be raised from the student body, and men from the different classes will be appointed to collect subscriptions. The team needs \$200 to pay expenses this year. Technology will be represented at the Inter-collegiate Tournament next March, and dual meets with Pennsylvania and Columbia will probably take place in Boston. The team needs your support.

C. E. WARREN,
Manager.

Notice.

Last May it was reported there was delivered at the Cage the Field Day banners for the years 1902 and 1903. They have apparently been delivered from there, lost, or mislaid. If anyone has any information regarding their present location, Mr. Briggs would like to have it, as these flags are expensive and the Advisory Council do not want to undertake to duplicate them if it can be avoided.



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SUPPLEMENT TO THE TECH

BOSTON, MASS., FRIDAY, DECEMBER 16, 1904.

WILLIAM BARTON ROGERS.

As Seen by an Old Pupil.

AN ADDRESS DELIVERED BY FRANCIS H. SMITH, M.A., LL.D., PROFESSOR OF NATURAL PHILOSOPHY, UNIVERSITY OF VIRGINIA, AT THE COMMEMORATIVE EXERCISES OF THE ONE HUNDREDTH ANNIVERSARY OF THE BIRTH OF TECHNOLOGY'S FOUNDER.

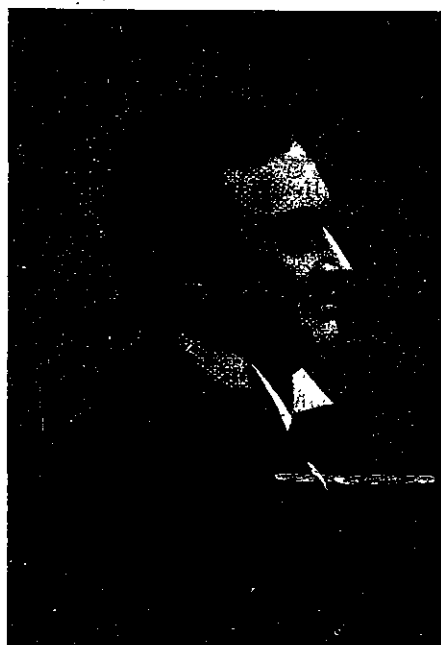
I have no formal commission, Mr. President, to represent the old pupils of Professor Rogers, who are scattered through the South. They are gray-haired men; their number is rapidly thinning out. But there is one name at the mention of which their faces brighten as they recall those happy days, half a century ago when they sat at the feet of the great teacher, and heard those unrivalled lectures, sentences from which they can yet repeat to admiring listeners. If they believe that he has left behind him no equal, who that knew him can blame them?

It may be questioned whether a man's pupils or immediate associates are the best judges of his merits. It may be with great men as it is with great mountains. It takes both the near and the far view to know them well. The distant survey reveals the great outlines and the relative height. The near view discloses the massive grandeur and the individual traits which are lost to the far-off spectator. The tourist, on the Rigi, admires the Alps. The Swiss mountaineer loves the Alps. Some of us have had both views of Professor Rogers. With the rest of the world we have marked his public acts and his appearance in the great arena with the scientific leaders of his time. We also knew him in the class room and in his home as pupil and friend.

I well remember the first time I ever saw him. He had just returned from his wedding trip in Europe, bringing with him to Virginia one of the fairest daughters of Massachusetts, who for four happy years graced our academic society with her charming presence.

In the unconventional and uncere- monious style of college boys, we gathered at his door to welcome him home. Then for the first time I listened to that easy, delightful eloquence, which, whether addressed to boys or men, always rose above the occasion.

More than fifty years have rolled



FRANCIS H. SMITH, M.A., LL.D.,
Professor of Natural Philosophy, University of Virginia.

away, yet Professor Rogers is still a living force with us. His name is carved on one of our buildings. His portrait looks down on our students in our chief hall. His bust is in our Physical Laboratory. Apparatus which was used by him, and experiments devised by him are exhibited year by year, and never without respectful mention of his name. That name is a house-hold word in the School of Geology. His fame is one of our college heirlooms.

I have called him a great man. May I tell you why we thought him so then, and why our estimate of him, formed in youth, was enlarged and confirmed in after years?

Mr. Rogers (so we called our professor in Virginia; we still speak of Mr. Jefferson and Mr. Madison). was a great man because he was a great teacher. Ordinary teachers are common enough. Great teachers are few, and in every age constitute the real aristocracy of our race. To be such a teacher gives play to every power of the human mind and heart. Well-digested knowledge and the power to impart it are the lowest of its demands. Imagination, sensibility and self-control are inevitably needed, while reigning over all must be that love of truth which disdains to tickle the ear with a falsehood, and that love of man which prefers his future respect to his present applause.

Mr. Rogers never came to his classes to perform a perfunctory

duty. He respected his young auditors. He told me once that he never rose to address them without a certain trepidation. No fear of them, but respect for them and the truth he had to speak. He was of Juvenal's faith, "*Maxima reverentia debetur pueris.*" Only great characters feel this; it is absurd to little men.

In power to make difficult things plain, he was unequalled by any other teacher I have ever known. His capacity for luminous exposition was really extraordinary. I have heard such excellent instructors as Courtenay and Bache speak with admiration of particular instances of his rare excellence as an expositor. At his touch complex subjects became simple and dark things bright. It was a memorable epoch in my own intellectual life when I first listened to his presentation of Newton's argument for universal gravitation. Joined to this rare gift of lucid expression was one which I have always ventured to place second among the elements of his greatness, although it was generally mentioned by his youthful admirers first. I refer to his high rank as a speaker. His eloquence was not labored or memoriter or ever turgid, but simple, easy, correct and inspiring, growing naturally out of his subject. His imagination was always subject to his reason, and was never allowed to take the rein. A simple happy epithet would often illuminate a

whole paragraph. When occasionally he would give play to a chastened fancy and afford his young auditors a relief from mental tension by a rhetorical sentence, as I have heard him say he sometimes did, of set purpose, then would roll out on our delighted ears a strain of elevated, captivating utterance, so felicitous that it is remembered to this day. Not only boys, but men were everywhere captivated by his remarkable platform power. At a British Association banquet, after a long line of speakers, he rose last of all before a weary audience. After a few sentences all were alert and alive; the tired company grew fresh again, and he sat down the winner of the honors of the evening. I have sometimes fancied that he owed this gift to the land of his ancestors, the beautiful island which has produced so many orators; which gave to Parliament a Burke, and to Physics, a Tyndall.

To these qualities of a great teacher Professor Rogers added the passion and capacity for original investigation. The great teacher cannot be a mere mouthpiece for other men. He must know books, but he must know more. As the interpreter of Nature he must hear her voice for himself.

Education is a "leading forth;" the leader must go before, and go farther than his pupil. Mr. Rogers had a singular power of penetrating to the truth of things through the disguises with which Nature hides her secrets from the careless or superficial. This was remarkably shown in his work in his favorite science of Geology. Here he was a pioneer. In those early days geologists were largely confined to surface indications; railway cuttings, tunnels, artesian borings were almost unknown; yet such was his insight that subsequent explorers have often confirmed the conclusions reached by him from data meaningless to other men, and Virginian geology has grown on the lines laid down by him.

He possessed another quality which is generally thought to be rare among scholars. The public does not look to them for managers or administrators. The power to make wise plans and to bring things to pass is an admirable one, by whomsoever displayed. This power he had and exhibited in two events of his life. He began the geological

survey of Virginia in 1836. He organized his corps of assistants, directed their work, co-ordinated the results, instructed the public, drew from the Legislature the annual appropriation; all this, while he was carrying on the work of his chair at the State University.

His ability to plan and administer was still more strikingly shown when he left Virginia and came to New England. Amid more favorable surroundings here he was to realize the dream of his later years in the foundation of the great Institute of Technology. Its history is a romance. Years of struggle marked its origin. The public had to be instructed, friends gained, opponents met, existing interests conciliated or withstood, money collected, buildings erected and equipped, and a Faculty assembled. This was done largely by one man, approaching fifty years of age, and a comparative stranger. Behold the result in a Polytechnic institution without a rival in the land. If in infancy it was overlooked, in its maturity its charms are drawing distinguished suitors. It stands as the crowning work in the life of its great first president. Our dear old master

needs no marble shaft to perpetuate his memory. "If you seek his monument, look around you."

It may be doubted whether in this century men like him are possible. When he grew up, a man might be eminent in several sciences. At an early British Association meeting some spoke of hearing Rogers the Geologist, others of Rogers the Chemist, and still others of Rogers the Physicist, not dreaming that they were speaking of the same person. It was the boast of some of the professors of that day that they could fill any chair in the college. That day is gone. A man can be expert only in one small section of one subject. We are growing to be a generation of specialists. Our view is microscopic. We see more, but we also see less. Details are multiplied but the field of view is reduced. In getting power to explore the atom we may lose the power to see the world.

If such men as Professor Rogers are no longer possible, we shall miss a great deal in losing the ample sweep which took in a great circle of knowledge, developing large and liberal sympathies, revealing helpful analogies, and protecting cautions supplied by cognate branches of

knowledge. Natural Philosophy was Physical Science and something more.

In the twenty-one years since Mr. Rogers left us, a great change has been coming over the educational institutions in our land. They are drawing closer together and getting to be like one another. Once they were isolated; now they meet in Educational Associations. Their frequent celebrations are attended by invited guests from all sister institutions. Academic honors are granted by one to the distinguished teacher in another. This national union of colleges has no written constitution but it is getting to be felt as a reality. The students have not escaped this nationalizing tendency. There is arising in our land the type we may call the American student. Sectional differences once so prominent are growing less, while the great qualities of manliness and thoroughness are becoming the distinguishing traits of college men from every quarter. Students are less and less rated by wealth or family. Merit is coming to the front as the only just ground of distinction. Soon the college colors and the college yell will be the main

difference between institutions. Every lover of his country will rejoice at this, and will hail the day when the youth of our great country, from whatever section they come, shall honor and strive for that which is true and honest and estimable. No one would have rejoiced more at this elevation of the student body than Mr. Rogers, and no one of his time contributed more than he to make it possible.

To this unity the passing of great teachers from one part to another of our land has powerfully contributed. When Professor Rogers came from Virginia to Massachusetts, the best we had was given to you. Your great Institute was not originated here. It was conceived in Virginia, but it owed its realization to the public spirit and enlightened liberality of Massachusetts. The Institute of Technology and the University of Virginia ought not to be strangers to one another. We have one precious memory in common. In presence of that memory I salute you to-day, and bring the best wishes of the University of Virginia for the continued prosperity of the Massachusetts Institute of Technology.

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6*02P	"Southwestern Express." Buffalo and Chicago. Dining Car and Sleepers.
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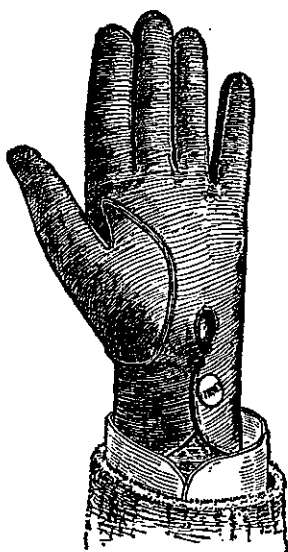
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Lectures on Choice of Course.

The first lectures on "Choice of
Course" for the Freshman Class will
be given by Professors Sedgwick,
Swain and Clifford in Huntington
Hall on Saturday, December 17,
from 11 to 12. The second series
will be given by Professors Lanza
and Talbot in Huntington Hall, on
Monday, December 19, at 4 P.M.
Professor Sedgwick will lecture on
Biology, Professor Swain on Civil
Engineering, Professor Clifford on
Electrical Engineering, Professor
Lanza on Mechanical Engineering
and Professor Talbot on Chemistry
and Chemical Engineering.

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CALENDAR.

FRIDAY, DECEMBER 16.

- 1.00 P.M. M. I. T. Athletic Association, 22 Rogers. Important meeting to adopt a Constitution.
4.00 P.M. Mandolin Club Rehearsal, 31 Rogers.
8.00 P.M. Mechanical Eng. Society. Tech Union.
8.00 P.M. Lowell Institute Lecture by Paul Milyoukov on "The Russian Crisis," Huntington Hall.
11.00 A.M. Choice of Course Lectures by Professors Sedgwick (Course VII), Swain (Courses I and XI), and Clifford (Course VII), Huntington Hall.
8.00 P.M. Basket Ball, Technology vs. Dartmouth at Hanover, N. H.
8.00 P.M. Fencing. Novice tournament at the Gymnasium.

MONDAY, DECEMBER 19.

- 4.00 P.M. Choice of Course Lectures by Professors Lanza (Course II), and Talbot (Courses V and X), Huntington Hall.
7.45 P.M. Mining Engineering Society Meeting at the Tech Union. Dr. Edward Dyer Peters will address the Society on, "The Commercial Side of Copper Smelting."

Course II Hockey Team.

The Seniors in Course II have formed a Hockey Team, and would like to arrange games with other Course teams. Address communications to R. H. Morse, Cage.

"Technique" Calendar.

Technique, 1906, will put out a Calendar early next week. It is 10 by 15 inches, and contains a two-color drawing, by Farnsworth, '06.

Theatre Attractions

CASTLE SQ.—"Richelleu."
COLONIAL.—Wm. H. Crane in, "Business is Business."
GLOBE.—Ross & Fenton in, "Twirly Whirly."
HOLLIS.—"Hamlet."
MAJESTIC.—P. C. Whitneys Musical Cocktail "Piff, Paff, Poff."
PARK.—Miss Bingham in, "The Frisky Mrs. Johnson."
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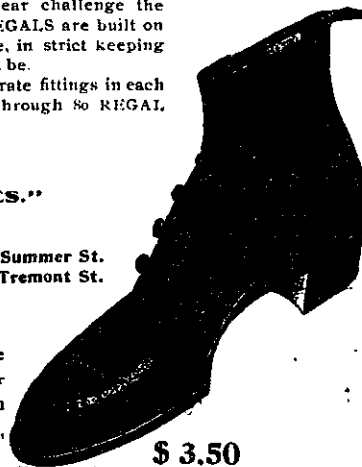
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